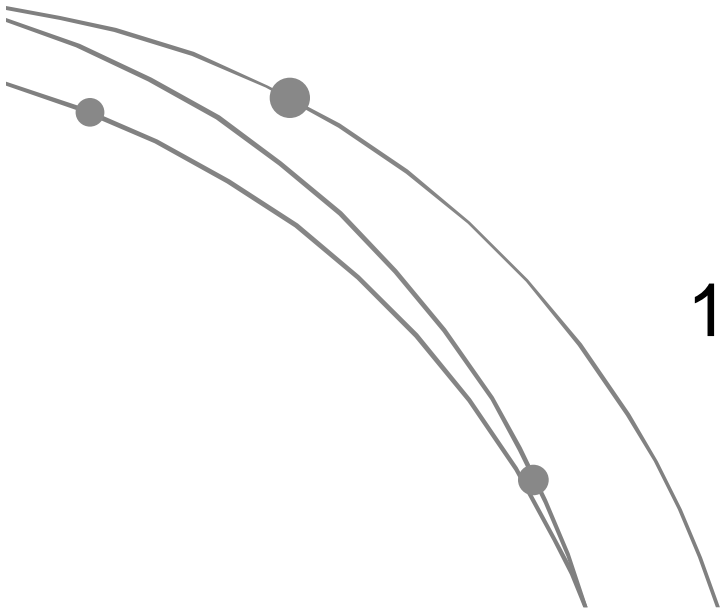
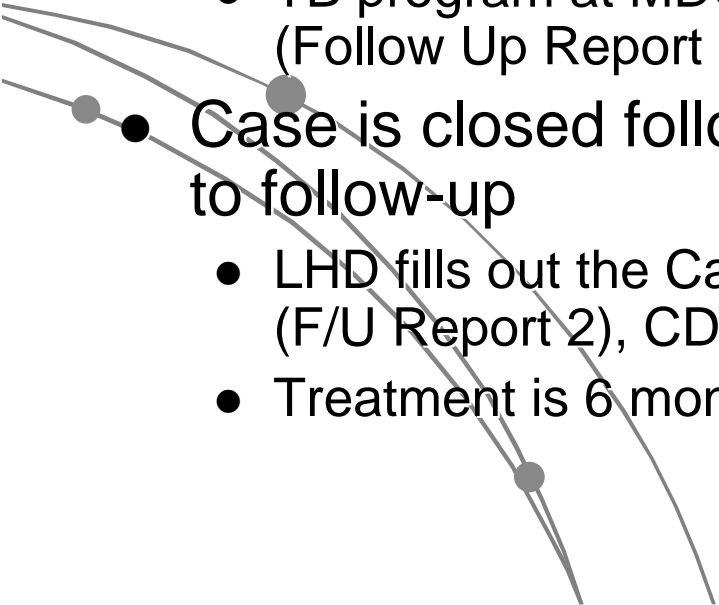


# Incident Tuberculosis Reporting in the MDSS



Training slides  
18 October 2007

# Historical TB Workflow

- All case management and contact follow-up occurs at the local level
  - LHD is notified of suspected or confirmed case of TB
    - Fills out RVCT and sends hard copy to MDCH (Report of Verified Case of TB, CDC 72.9A)
  - Isolate is confirmed and susceptibility is tested at MDCH
    - TB program at MDCH fills out Initial Drug Susceptibility Report (Follow Up Report 1 (F/U Report 1), CDC 72.9B)
  - Case is closed following completion of treatment or loss to follow-up
    - LHD fills out the Case Completion Report (Follow Up Report 2 (F/U Report 2), CDC 72.9C) and sends hard copy to MDCH
    - Treatment is 6 months or longer
- 

# Future Work Flow

- Upon notification of a suspect or confirmed case of active TB:
  - LHD enters the case into the MDSS under the reportable condition: “Tuberculosis” and leaves the Investigation Status as “New”
    - *LHDs should be aware that TB referrals , like other diseases, can also enter the MDSS through electronic lab report (ELR), healthcare provider (HCP) entry, or cross-jurisdictional LHD entry*
  - LHD completes the case detail information for pages 1-4 and changes the Investigation Status to “Active” when complete to indicate the case is ready for review by MDCH
  - Following review, MDCH will:
    - Mark “No” for the completion questions for F/U Report 1 and F/U Report 2
    - Mark the case “Completed” for notification to CDC
      - *The case can’t be left open until follow-up is complete because CDC won’t be notified unless the case is marked “Completed”*

Adobe Acrobat Standard - [RVCT Form 7a.pdf]

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Activate Form Submit Form Cancel Form Case Definitions

# Report of Suspect/Verified Case of Tuberculosis (RVCT)

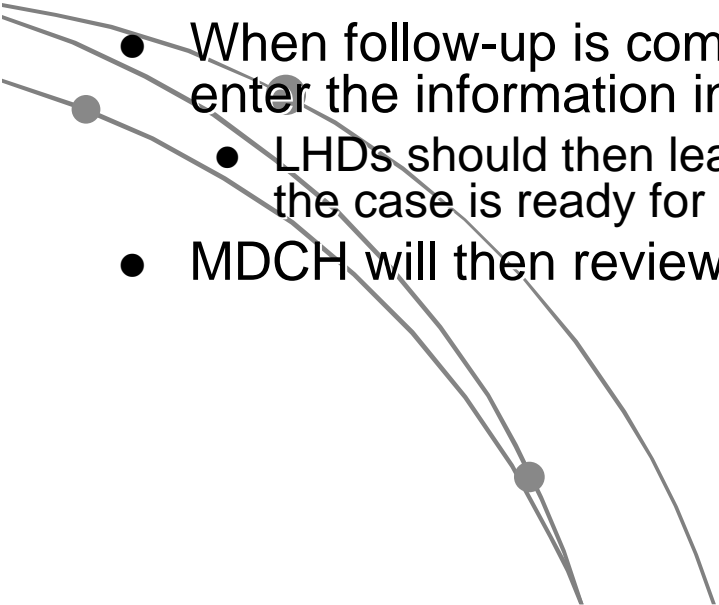
Michigan Department of Community Health  
Communicable Disease Division

| Investigation Information   |                                      |  |  |                             |
|---|--------------------------------------|--|--|-----------------------------|
| Investigation ID  | State TB Case No<br>(State Use Only) | Part of an outbreak?<br><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown | Outbreak Name  | Referral Date<br>mm/dd/yyyy |
| Investigation Status<br><input type="radio"/> New <input type="radio"/> Active <input type="radio"/> Completed <input type="radio"/> Superseded <input type="radio"/> Cancelled |                                      |  | Case Status<br><input type="radio"/> Confirmed <input type="radio"/> Not a Case <input type="radio"/> Probable <input type="radio"/> Suspect <input type="radio"/> Unknown |                             |
| Patient Status<br><input type="radio"/> Inpatient <input type="radio"/> Outpatient <input type="radio"/> Died   |                                      | Patient Status Date<br>mm/dd/yyyy  | Diagnosis Date<br>mm/dd/yyyy   | Onset Date<br>mm/dd/yyyy    |
| Patient Information   |                                      |  |  |                             |
| Patient ID  | First                                | Last   | Middle   |                             |
| Street Address  |                                      |  |  |                             |
| City  | County                               | State  | Zip  |                             |

1 of 9

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# Future Work Flow (2)

- When drug susceptibility information is available, MDCH will re-open the case to enter information into F/U Report 1. MDCH will then close the case.
    - Nearly all of drug susceptibility testing is done at BOL
    - LHDs will be notified of drug susceptibility results by fax
  - If the isolate is determined to be part of a cluster, MDCH will change re-open the case, change the “Outbreak Y/N” field to “Yes” and add the name of the cluster to the “Outbreak Name” field
    - The MDCH TB will continue to distribute the cluster reports via paper
  - When follow-up is completed, the LHD should re-open the case and enter the information into F/U Report 2.
    - LHDs should then leave the Investigation Status as “Active” to indicate the case is ready for review by MDCH.
  - MDCH will then review and close the case finally.
- 

Adobe Acrobat Standard - [RVCT Form 7a.pdf]

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Case ID First Name Last Name Report of Suspect/Verified Case of Tuberculosis (RVCT) Page 5

4/17/2007

Follow Up

Adobe Acrobat Standard - [RVCT Form 7a.pdf]

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Case ID First Name Last Name Report of Suspect/Verified Case of Tuberculosis (RVCT) Page 6

4/17/2007

Follow Up Report -- 2: Case Completion Report

Case Completion Report Completed?

☐ Yes ☐ No ☐ Unknown

Sputum Culture Conversion Documented

☐ No ☐ Yes ☐ Unknown

If Yes, Date Specimen Collected on First Consistently Negative Culture

mm/dd/yyyy

If No, Reason For Not Documenting Sputum Culture Conversion

☐ Clinically improved: No follow-up sputum despite induction ☐ No follow-up sputum collected ☐ No initial sputum result or none collected

☐ Died ☐ Patient lost ☐ Patient refused

☐ Other: \_\_\_\_\_ ☐ Unknown

U.S.-Mexico Binational Status

☐ Binational TB Case ☐ Not a binational TB case ☐ Unknown

If a binational TB case, reason why (select all that apply)

☐ Diagnostic/Clinical/Treatment Information Exchange ☐ Contacts ☐ Laboratory/Radiologic Testing

Did the patient move during TB therapy

☐ No ☐ Yes ☐ Unknown

If Yes, moved to where (select all that apply)

☐ In state, out of jurisdiction ☐ Out of state ☐ Out of the U.S.

If moved in state, out of jurisdiction, enter county #1

If moved in state, out of jurisdiction, enter county #2

If moved out of state, enter state #1

If moved out of state, enter state #2

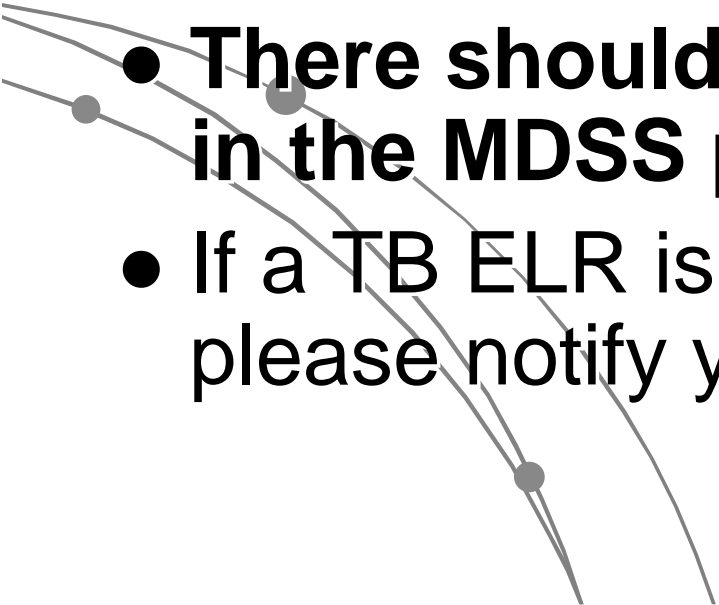
If moved out of the U.S., enter country #1

If moved out of the U.S., enter country #2

Date Therapy Stopped

mm/dd/yyyy

# De-duplication Policy

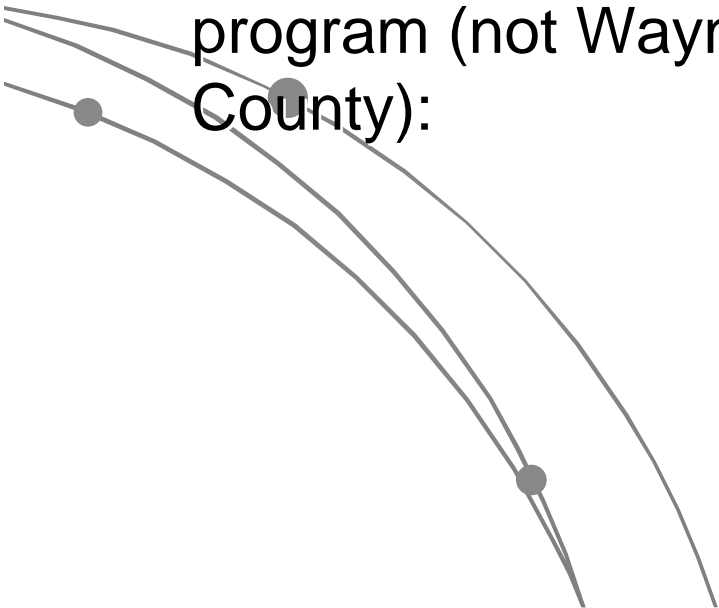
- Proper de-duplication of incoming TB ELRs is very important
  - The Pending Work Queue can be challenging because users can't tell if it is a TB lab until the end of de-duplication
  - **There should be only one investigation in the MDSS per case of TB**
  - If a TB ELR is not merged correctly, please notify your Regional Epidemiologist
- 

# A Challenge:

Cases managed by Detroit City instead of Wayne County

- Detroit City has its own CDC funded TB program
- Unlike traditional CDs, cases who reside in the listed cities are managed by Detroit City's TB program (not Wayne County):

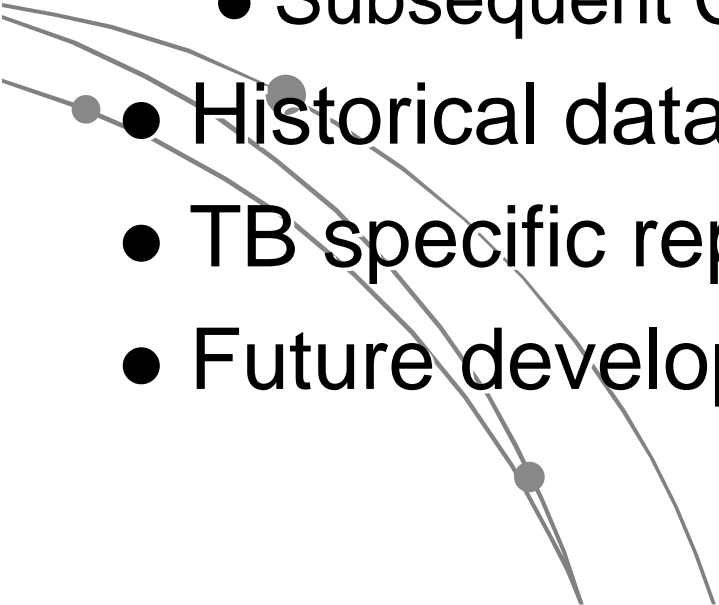
- Hamtramck
- Highland Park
- Harper Woods
- Grosse Point
- Grosse Park
- Grosse Shores
- Grosse Woods
- East Detroit
- East Pointe



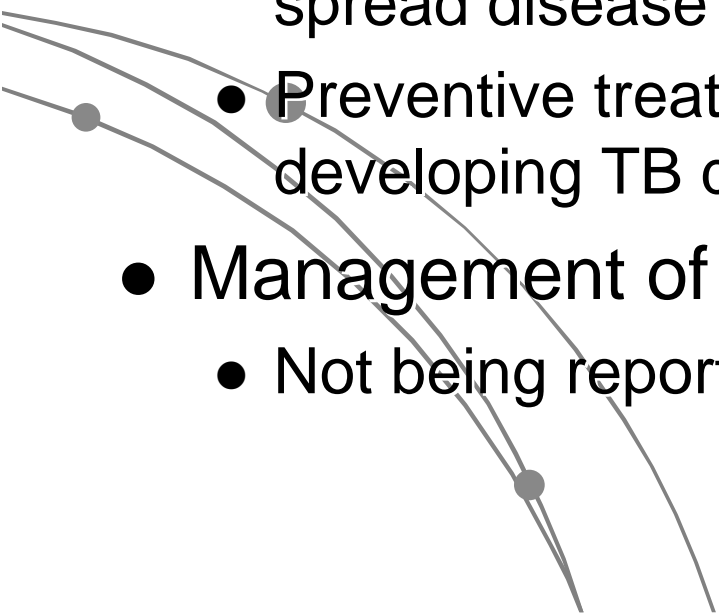
# Managing Detroit City's TB Jurisdiction

- If Detroit receives notification of a case from these cities:
  - The case should be entered into the MDSS with Detroit City as the only address field
    - If there is a previously existing (non-TB) case for this person, merge the person and create a new case for the TB report
    - If there is a previously existing TB case, merge both the person and the case and follow-up as appropriate
  - The actual address should be entered into the Case Notes HTML Tab with a note about the jurisdictional issue
- If a case is already in the MDSS and needs to be moved:
  - If an LHD identifies a case that needs to be moved, please contact the MDCH TB Program
  - Because of a quirk with managing addresses in the Address History tab, MDCH will need to move the case to Detroit City.

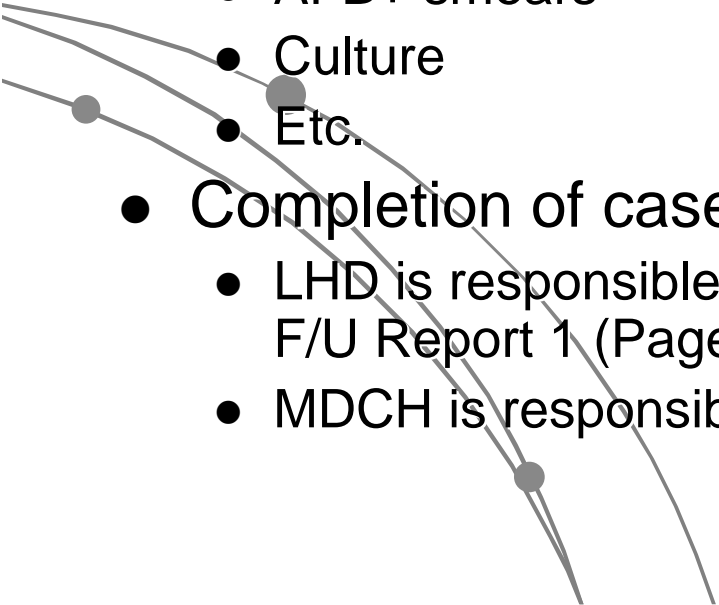
# Expected Questions: Not in this release

- Prolonged case management is not tracked in the MDSS at this time:
    - Complete contact tracing data
    - Directly Observed Therapy (DOT) data
    - Subsequent CXR results
  - Historical data from TIMS not uploaded yet
  - TB specific reports not incorporated yet
  - Future development in 2008?
- 

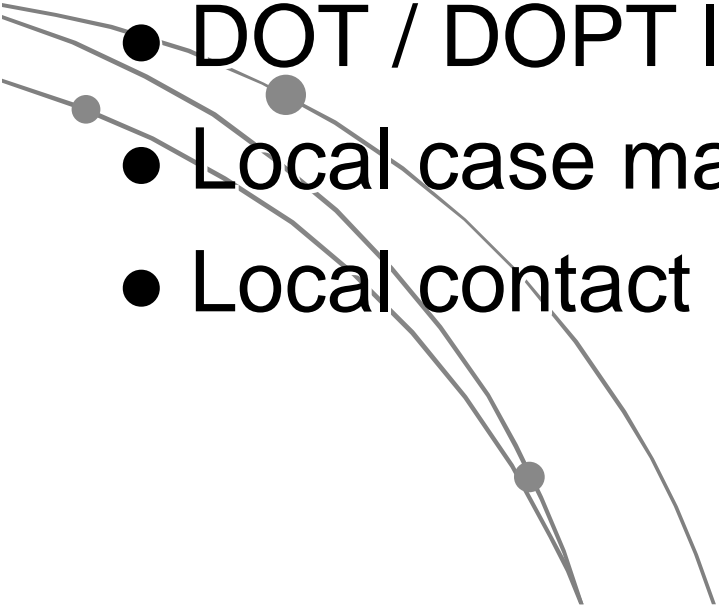
# Expected Questions: Latent TB Infection (LTBI)

- Patients with LTBI
    - Positive skin test but not active disease (normal x-ray and no clinical signs)
    - Not considered infective
    - Without preventive treatment, can become ill and spread disease
    - Preventive treatment greatly reduces the risk of developing TB disease
  - Management of LTBI
    - Not being reported into MDSS at this time
- 

# Expected Questions: Policy

- All incident TB cases should be reported to MDCH via MDSS beginning January 1<sup>st</sup>, 2008
  - Point at which to report: Any suspect TB case should be entered into the MDSS
    - HCP report
    - Positive skin test PLUS abnormal X-ray
    - AFB+ smears
    - Culture
    - Etc.
  - Completion of cases:
    - LHD is responsible for filling out all of case detail form EXCEPT F/U Report 1 (Page 5)
    - MDCH is responsible for marking the case completed
- 

# Other TB forms / reports: Not Changing

- Inter-jurisdictional Notifications
  - TB Incident Alert Form
  - DOT Patient Registration and Update Form
  - DOT / DOPT logs
  - Local case management forms
  - Local contact investigation forms
- 
- A decorative graphic consisting of three curved, parallel lines that sweep from the left side towards the bottom right. Each line has a small grey dot placed on it, roughly corresponding to the vertical position of the last three items in the list above.

# More Information?

**Contact Your Regional Epidemiologist**

- OR -

**The MDCH TB Program at 517-335-8165**

- OR -



**Brad Carlson, MPH**  
**Surveillance Systems**  
**Coordinator**  
**carlsonbr@michigan.gov**

**Elizabeth Lewis, MS**  
**Senior Bioterrorism**  
**Epidemiologist**  
**LewisE@michigan.gov**

**MDSS Information Available on the Web**

**<http://www.michigan.gov/mdss>**